### **Top Secret**



DIRECTORATE OF INTELLIGENCE

Industrial Facilities (Non-Military)

# Basic Imagery Interpretation Report

Selected Cement Plants China

**Top Secret** 

RCS	13/0040/71
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DATE	MAY 1971
COPY	<sub>61</sub> 117
PAGES	61 •



Approved For Release	2008/05/20 : CIA-RDP79T00909A000700010038-8		
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	CENTRAL INTELLIGENCE AGENCY		

Directorate of Intelligence Imagery Analysis Service

#### ABSTRACT

This report presents information on 45 major cement plants in China. It includes initial basic studies on four new plants — at Kai-yuan, O-mei, Shen-yang, and Ting-shu-chen. Updates are provided on 34 plants. Seven other plants scheduled for updates were not seen on interpretable photography since the last report. The cut-off date for information in this report is February 1971.

The plants studied contained a total of 106 rotary kilns. These include a new kiln at Chung-ching (Chungking) and seven kilns at the four new plants. The largest rotary cement kilns in China have been installed at the new O-mei plant. Other construction activities observed include materials for a new kiln at Wu-chang, two new stacks at Ta-tung, a new slurry tank at Chao-hsien, and new storage silos at Liao-yang.

During the period of this study, at least 54 and possibly 71 kilns were operating at a total of 32 plants.

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## Approved For Release 2008/05/20 : CIA-RDP79T00909A000700010038-8 25X1 $M\ O\ N\ G\ O\ L\ I\ A$ 42 TOP SECRET 25X1 TOP SECRET EAST $c^{HINA}$ SEA25X1 PARISTAN INDIA $I_{NDIA}$ 25X1 B URM A PHILIPPINES SOUTH CHINA SEA (HAINAN) FIGURE 1. LOCATION MAP.

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#### INTRODUCTION

This report presents information on the status of the following major cement plants in China (see Figure 1).

- I. Chao-hsien Cement Plant.
- 2. Chi-lin (Kirin) Cement Plant.
- 3. Chi-lin Cement Plant 2.
- 4. Chiang-shan Cement Plant.
- 5. Chien-ko Cement Plant.
- 6. Chin-hsi Cement Plant.
- 7. Chiu-chiang Cement Plant.
- 8. Chou-shui-tzu Cement Plant.
- 9. Chung-ching (Chungking) Cement Plant.
- 10. Feng-feng Cement Plant.
- II. Fu-shun Cement Plant.
- 12. Ha-erh-pin (Harbin) Cement Plant.
- 13. Huang-shih Cement Plant.
- 14. Hu-chou Cement Plant.
- 15. Kai-yuan Cement Plant.
- 16. Ku-shui Cement Plant.
- 17. Kuang-chou (Canton) Cement Plant.
- 18. Kuei-yang Cement Plant 2.
- 19. Kuei-yang Cement Plant 3.
- 20. Kun-ming Cement Plant.
- 21. Kuo-kuo Cement Plant.
- 22. Liao-yang Cement Plant.
- 23. Lin-ping Cement Plant.
- 24. Liu-chou Cement Plant.
- 25. Liu-li-ho Cement Plant.
- 26. Miao-tou-chai Cement Plant Shih-fu.
- 27. Mu-tan-chiang Cement Plant Wen-chuan.
- 28. Nan-ching (Nanking) Cement Plant Kiang-nan.
- 29. Nan-ching Cement Plant Lung-tan.
- 30. Nan-ping Cement Plant.
- 31. O-mei Cement Plant.
- 32. Pen-chi Cement Plant Kung-yuan.
- 33. Pen-chi Cement Plant South.
- 34. Shanq-hai Cement Plant.
- 35. Shen-yang Cement Plant.
- 36. Ta-tung Cement Plant.
- 37. Tai-yuan Cement Plant.
- 38. Tang-shan Cement Plant Chi-hsin.
- 39. Ting-shu-chen Cement Plant.
- 40. Tzu-po Cement Plant Nan-ting.

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- 41. Wu-chang Cement Plant.
- 42. Wu-lu-mu-chi (Urumchi) Cement Plant.
- 43. Wu-sung Cement Plant.
- 44. Yao-hsien Cement Plant.
- 45. Yung-teng Cement Plant.

Requirement

COMIREX NO2

Support Number 429220

Document Reference

CIA RCS - 13/0031/70, Selected Cement Plants, China, May 1970, (TOP SECRET CIA RCS - 13/0145/69, Selected Cement Plants, China, June 1969,

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FIGURE 2. CHAO-HSIEN CEMENT PLANT

-5-**TOP SECRET**  25X1

NSTALLATION OR AC	TIVITY NAME	COUNTRY	
Chao-hsien Cem	ent Plant	CH	
JTM COORDINATES 50RNK799988	GEOGRAPHIC COORDINATES 31-37-20N 117-50-10E		
MAP REFERENCE 8th RTS. USATC	, Series 200, Sheet M0493	3–4HL, 4th ed, Apr 68, Scale I:200,000	7
(SECR	ET	NEGATION DATE (If required)	
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		NA	
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since February previous repor (see Figure 2)	urry tank has been construction of the land to the lan	ucted at Chao-hsien Cement Plant atest photography used in the ted at the west end of the kilns e stack in December 1970 and this	

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STALLATION OR ACTIV	VITY NAME		COUNTRY	-
hi-lin Cement F	Plant		СН	
	EOGRAPHIC COORDINATES 43-53-05N   26-32-30E			
		290-3HL, 3rd ed, Jul 65	. Scale 1:200.000	_
(SECRE	ET/	NEGATION DATE (If required)		
TEST IMAGENT OSED		in Edition Divice (in radams)		
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he date of the Smoke was s 970, indicating	have been observed at latest photography useseen coming from the easy that its associated by	C DESCRIPTION  Chi-lin Cement Plant s  ed in the previous report  estern stack in April,	ort. June, and October e absence of	-
he date of the Smoke was s 970, indicating	have been observed at latest photography useseen coming from the easy that its associated by	C DESCRIPTION  Chi—lin Cement Plant s  ed in the previous report  estern stack in April, c  kiln was operating. The	ort. June, and October e absence of	-
he date of the Smoke was s 970, indicating	have been observed at latest photography useseen coming from the easy that its associated by	C DESCRIPTION  Chi—lin Cement Plant s  ed in the previous report  estern stack in April, c  kiln was operating. The	ort. June, and October e absence of	-
he date of the Smoke was s 970, indicating	have been observed at latest photography useseen coming from the easy that its associated by	C DESCRIPTION  Chi—lin Cement Plant s  ed in the previous report  estern stack in April, c  kiln was operating. The	ort. June, and October e absence of	-
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STALLATION O	R ACTIVITY NAME			COUNTRY	-
ni-lin Ceme	ent Plant 2			СН	
TM COORDINAT	S GEOGRAPHIC CO			None None	
TCD079634	43-54-05N I	26-36-23E		None None	•
		). Sheet MO29	90-3HL, 3rd ed, Jul 0	65, Scale 1:200,000	
	SECRET				
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		BASTC	DESCRIPTION		
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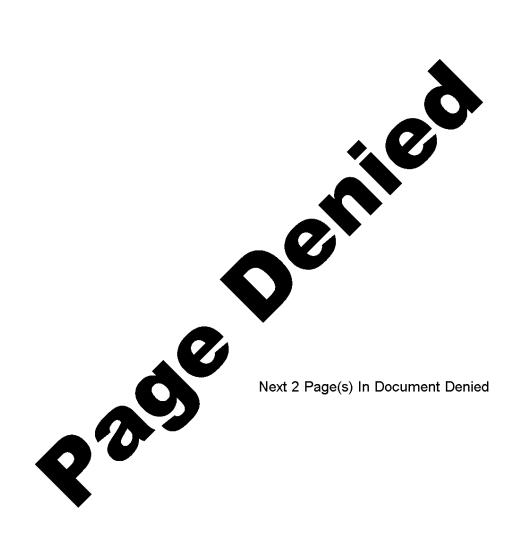
roved For Release	2008/05/20 : CIA-RDP79T00909A0007	700010038-8	25
INSTALLATION OR AC	TIVITY NAME	COUNTRY	<del>-</del>
Chien-ko Cement	- Plant	CH	_
UTM COORDINATES	GEOGRAPHIC COORDINATES		25)
	32-05-00N 105-06-00E		
MAP REFERENCE ACIC. Tactical (UNCLASS	Pilotage Chart, Sheet G-9D, May	67, Scale 1:500,000	<del></del>
LATEST IMAGERY US	ED NEGATI	ON DATE (If required)	
		NA	

#### NOTICE

Chien-ko Cement Plant has not been seen on photography since August 1969, the date of the latest photography used in the previous report. At that time, this plant had three rotary kilns.



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ISTALLATION OR AC	TIVITY NAME		COUNTRY
hiu-chiang Cem	nent Plant		СН
	GEOGRAPHIC COORDINATES	-	
ORMH120753	29-36-25N   16-05 <b>-</b> 308		
5th RTS. USATO	, Series 200. Sheet MC	0493-12HL, 2nd ed, Oc† 67,	Scale 1:200,000
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Feng-feng Cement Plant  UTM COORDINATES  OSKR502383  36-26-00N   14-10-20E  MAP REFERENCE  15th RTS. USATC, Series 200. Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000  (SECRET)  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Feng-feng Cement Plant since December 1969, the date of the latest imagery used in the previous report.  Smoke from the stacks precludes determining how many of the three kilns were operating in August 1970. Smoke was coming from the center stack in	Teng-feng Cement Plant  UTM COORDINATES JOSKRSO2383  36-26-00N 114-10-20E  MAP REFERENCE  15th RTS. USATC, Series 200, Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000  (SECRET)  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Feng-feng Cement Plant since December 1969, the date of the latest imagery used in the previous report.  Smoke from the stacks precludes determining how many of the three kilns were operating in August 1970. Smoke was coming from the center stack in December 1970, indicating that only one kiln was operating.	oved For Release 2008/05/20 : CIA-RDP79	P SECRET		
Feng-feng Cement Plant  UTM COORDINATES GEOGRAPHIC COORDINATES 50SKR502383  36-26-00N   14-10-20E  MAP REFERENCE 15th RTS. USATC, Series 200, Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000 (SECRET)  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Feng-feng Cement Plant since December 1969, the date of the latest imagery used in the previous report.  Smoke from the stacks precludes determining how many of the three kilns were operating in August 1970. Smoke was coming from the center stack in	THE CORRESPONDED IN THE COORDINATES GEOGRAPHIC COORDINATES 36-26-00N 114-10-20E MAP REFERENCE 15th RTS. USATC, Series 200, Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000 (SECRET)  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Feng-feng Cement Plant since December 1969, the date of the latest imagery used in the previous report.  Smoke from the stacks precludes determining how many of the three kilns were operating in August 1970. Smoke was coming from the center stack in December 1970, indicating that only one kiln was operating.				
Feng-feng Cement Plant  UTM COORDINATES 500SKR502383  36-26-00N   14-10-20E  MAP REFERENCE 15th RTS. USATC, Series 200, Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000 (SECRET)  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Feng-feng Cement Plant since December 1969, the date of the latest imagery used in the previous report.  Smoke from the stacks precludes determining how many of the three kilns were operating in August 1970. Smoke was coming from the center stack in	Feng-feng Cement Plant  UTM COORDINATES 505KR502383  36-26-00N 114-10-20E  MAP REFERENCE 15th RTS. USATC, Series 200, Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000  (SECRET)  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Feng-feng Cement Plant since December 1969, the date of the latest imagery used in the previous report.  Smoke from the stacks precludes determining how many of the three kilns were operating in August 1970. Smoke was coming from the center stack in December 1970, indicating that only one kiln was operating.				
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		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	
		No apparent changes have been o December 1969, the date of the late Smoke from the stacks precludes were operating in August 1970. Smo	observed at Feng-feng Cement Pest imagery used in the previous determining how many of the oke was coming from the center	ous report. three kilns	

TOP SECRET

TOP SECRET	
NSTALLATION OR ACTIVITY NAME	COUNTRY
u-shun Cement Plant	CH
TM COORDINATES   GEOGRAPHIC COORDINATES	•
USATC, <u>Series 200, Sheet M0290-IIHL, 4th ed, Jan 66</u>	5, Scale 1:200,000
ATEST IMAGERY USED NEGATION DATE (If required)	<del>-</del>
NA	
BASIC DESCRIPTION	
No changes have been observed at Fu-shun Cement Plant sin he date of the latest photography used in previous reports.	nce April 1969,
Smoke from the stacks indicated that both kilns were oper and December 1970.	rating in March

-17-

TOP SECRET



				_
NSTALLATION OR AC	TIVITY NAME	<del></del>	COUNTRY	
	art Diont		CH	
Huang-shih Cem	GEOGRAPHIC COORDINATES			_
50RLJ!51448	30-13-22N 115-04-20	DE		
AP REFERENCE				
2nd RTS. USATO	C, <u>Series 200, Sheet N</u>	MO493-11HL, 4th ed, Jul 68,	Scale 1:200,000	
(SECF	RÉT			
ATEST IMAGERY USI	D	NEGATION DATE (11 required)		
				2
		NA NA		_
The plant	was not operating in	graphy used in the previous  August 1970. Smoke was cor	ning from at	
The plant least one sta	was not operating in	August 1970. Smoke was cornd this obscured the other s	ning from at	
The plant least one sta	was not operating in ck in December 1970 a	August 1970. Smoke was cornd this obscured the other s	ning from at	
The plant least one sta	was not operating in ck in December 1970 a	August 1970. Smoke was cornd this obscured the other s	ning from at	
The plant least one sta	was not operating in ck in December 1970 a	August 1970. Smoke was cornd this obscured the other s	ning from at	
The plant least one sta	was not operating in ck in December 1970 a	August 1970. Smoke was cornd this obscured the other s	ning from at	
The plant least one sta	was not operating in ck in December 1970 a	August 1970. Smoke was cornd this obscured the other s	ning from at	
The plant least one sta	was not operating in ck in December 1970 a	August 1970. Smoke was cornd this obscured the other s	ning from at	
The plant least one sta	was not operating in ck in December 1970 a	August 1970. Smoke was cornd this obscured the other s	ning from at	
The plant least one sta	was not operating in ck in December 1970 a	August 1970. Smoke was cornd this obscured the other s	ning from at	

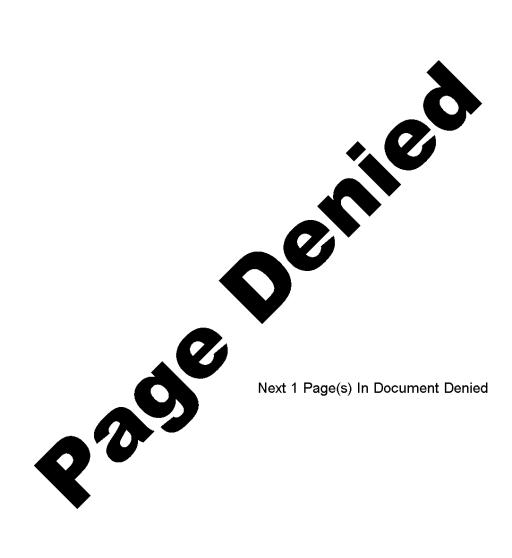
roved For Release	2008/05/20 : CIA-RDP79T009 TOP SE		
INSTALLATION OR AC	TIVITY NAME		COUNTRY
Hu-chou Cement	· Plant		СН
JTM COORDINATES 51RTE221273	GEOGRAPHIC COORDINATES 30-56-42N   120-05-30E		'
MAP REFERENCE ACIC. USATC, S (SECRET	Series 200, Sheet M0492-6H	L, 4th ed, Oct 67, Scale !	:200,000
ATEST IMAGERY USE	ED	NEGATION DATE (If required)	
		NA	
		NOTICE	

Hu-chou Cement Plant has not been seen on photography since December 1969, the date of the latest imagery used in the previous report. At that time, this plant had one rotary kiln.

TOP SECRET

DP79T00909A000700010038-8

roved For Release	2008/05/20 : CIA-RDP79T009 T <b>OP SE</b>				25X
			COUNT	DV	
NSTALLATION OR AC	TIVITY NAME			N I	
Kai-yuan Cemer	nt Plant		CH	Lucia No.	
JTM COORDINATES	GEOGRAPHIC COORDINATES		COMIREX NO.	NIETB NO.	25>
48QUB210215	23-41-40N 103-14-38E		None	None	
AAP REFERENCE	<u> </u>				
548th RTG. US/	ATC, <u>Series 200. Sheet M</u> O6	516-2HL, 4th ed, Sep 68	3, Scale 1:20	0,000	
(SI	ECRÉT				25>
ATEST IMAGERY US	ED	NEGATION DATE (If required)			
					25>
This plan obtained from There are two feet (see Fig	eximately 1,200 by 600 fee of produces cement using to a nearby quarry which is b exposed rotary kilns, ea gure 4). A dust catcher so clude a primary grinding a	he wet process. Raw m connected to the plan ch measuring approxima erves each kiln. Majo rea. a slurry tank, fi	tely 385 or components ve mixing and	OT J	2
correcting to silos, a ship	anks, a clinker storage bu oping area, a final grindi	nilding, eight final pr ng area, and a coal re	eceiving area.		
In January 19 on the clinke slurry tank, materials con 1968. At the catchers, raunder constru	ction of this plant began 267, the kiln supports wer er storage building. Exca the mixing and correcting nveyor was not in place. et time, the slurry tank a il spurs, storage silos, a uction. Except for the ki ilns were installed by Mar	re in place and constructions marked the positions marked the positions and the storage No changes were appared and conveyor were complaind mixing and corrections, the plant was constructions, the plant was constructions.	sitions of the silos. The ent until Novellete. The during tanks were	erway raw ember st	
absorved com	nt was first seen operating from both stacks. Smoone 1970, indicating that o	oke was only coming tr	om one stack	111	



roved For Release 2008/05/20 : CIA-RI	TOP SECRET		
INSTALLATION OR ACTIVITY NAME		COUNTRY	-
Ku-shui Cement Plant		СН	49
UTM COORDINATES   GEOGRAPHIC COORDINATES   49RFA   7869   27-44-00N   112-12			is
MAP REFERENCE 15th RTS. USATC, Series 200, She (SECRET		65, Scale 1:200,000	
LATEST IMAGERY USED	NEGATION DATE (If require	ed)	
		NA	

#### NOTICE

Ku-shui Cement Plant has not been seen on photography since September 1969, the date of the latest photography used in the previous report. At that time, this plant had two rotary kilns.

-24-TOP SECRE

COORDINATES GEOGRAPHIC COORDINATES  OGR292630 23-09-10N   13-14-15E  PREFERENCE  USATC, Series 200, Sheet M0614-6HL, 5th ed, May 68, Scale   1:200,00 (SECRET	STALLATION OR ACTIVITY NAME	E	COUNTRY
GEOGRAPHIC COORDINATES  OGR292630  23-09-ION II3-I4-I5E  REFERENCE  USATC, Series 200, Sheet M0614-6HL, 5th ed, May 68, Scale I:200,00  (SECRET)  EST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Kuang-chou Cement Plant since cember 1969, the date of the latest photography used in the previous report Smoke coming from one stack indicated that only one of the four kilns this plant was operating in July 1970.			
DGR292630  23-09-10N   13-14-15E  REFERENCE  USATC, Series 200, Sheet M0614-6HL, 5th ed, May 68, Scale 1:200,00  (SECRET)  EST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Kuang-chou Cement Plant since cember 1969, the date of the latest photography used in the previous report Smoke coming from one stack indicated that only one of the four kilns this plant was operating in July 1970.	ang-chou Cement Plant	·	CH
USATC, Series 200, Sheet M0614-6HL, 5th ed, May 68, Scale 1:200,00 (SECRET)  EST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Kuang-chou Cement Plant since cember 1969, the date of the latest photography used in the previous report Smoke coming from one stack indicated that only one of the four kilns this plant was operating in July 1970.			
USATC, Series 200, Sheet M0614-6HL, 5th ed, May 68, Scale 1:200,00 (SECRET)  EST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Kuang-chou Cement Plant since cember 1969, the date of the latest photography used in the previous report Smoke coming from one stack indicated that only one of the four kilns this plant was operating in July 1970.		ON [13-14-15E	
(SECRET)  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Kuang-chou Cement Plant since cember 1969, the date of the latest photography used in the previous report Smoke coming from one stack indicated that only one of the four kilns this plant was operating in July 1970.		200 Sheet MO614-6HL 5th	ed May 68. Scale 1:200.000
BASIC DESCRIPTION  No apparent changes have been observed at Kuang-chou Cement Plant since cember 1969, the date of the latest photography used in the previous report. Smoke coming from one stack indicated that only one of the four kilns this plant was operating in July 1970.		200, 011001 11001 1 0110, 5111	
BASIC DESCRIPTION  No apparent changes have been observed at Kuang-chou Cement Plant since cember 1969, the date of the latest photography used in the previous report  Smoke coming from one stack indicated that only one of the four kilns this plant was operating in July 1970.	TEST IMAGERY USED	NEGATION D	ATE (If required)
BASIC DESCRIPTION  No apparent changes have been observed at Kuang-chou Cement Plant since cember 1969, the date of the latest photography used in the previous report  Smoke coming from one stack indicated that only one of the four kilns this plant was operating in July 1970.			
No apparent changes have been observed at Kuang-chou Cement Plant since cember 1969, the date of the latest photography used in the previous reportance Smoke coming from one stack indicated that only one of the four kilns this plant was operating in July 1970.			NA
No apparent changes have been observed at Kuang-chou Cement Plant since cember 1969, the date of the latest photography used in the previous reportance Smoke coming from one stack indicated that only one of the four kilns this plant was operating in July 1970.			
sember 1969, the date of the latest photography used in the previous repor Smoke coming from one stack indicated that only one of the four kilns this plant was operating in July 1970.		BASIC DESCRIPTION	
•	No apparent change	e of the latest photography one stack indicated that or	used in the previous report.
	ecember 1969, the date Smoke coming from	ating in July 1970.	
	Smoke coming from t this plant was opera	ating in July 1970.	
	Smoke coming from t this plant was opera	ating in July 1970.	
	Smoke coming from t this plant was opera	ating in July 1970.	

	CTIVITY NAME		COUNTRY
Luei-yang Cem	ent Plant 2		СН
M COORDINATES	GEOGRAPHIC COORDINATES		
8RXE672385 _	26-33-21N 106-40-45E		
P REFERENCE	·		
		96-10HL, 3rd ed, Oct 70, 9	Scale 1:200,000
(SECRE			
TEST IMAGERY US	ED	NEGATION DATE (If required)	
		NA	
	RASI	C DESCRIPTION	
	27.31	S BESSIXII (151)	
No appar	ent changes have been	observed at Kuei-yang Ceme	ent Plant 2 since
lugust 1969,	the date of the latest	photography used in the perch 1970 photography prohi	previous report.
AWAVAE INA		ren 1970 photography pron	ibiled a delailed
	ne niant		
	ne plant.		
nalysis of t	·	was not operating in March	1970.
inalysis of t	·	was not operating in March	1970.
nalysis of t	·	was not operating in March	1970.
nalysis of t	·	was not operating in March	n 1970.
nalysis of t	·	was not operating in March	1970.
nalysis of t	·	was not operating in March	n 1970.

STALLATION OR AC	CTIVITY NAME	·····		COUNTRY	-
uei-yang Ceme	ent Plant 3			CH	
M COORDINATES BRXE664350	GEOGRAPHIC CODI 26-31-30N 10			1	
	CRET,	. Sheet MO496	5-10HL. 3rd ed. 0ct 70.	Scale 1:200.000	_
TEST (MAGENT 03			NA		
		BASIC DES	SCRIPTION		
No appare arch 1969, th	ent changes ha ne date of the	ve been obser latest photo	rved at Kuei-yang Cemen ography used in the pre	t Plant 3 since vious report.	
Smoke was hotography in as operating	n March 1970.	ing from the This indicat	vicinity of the stacks tes that at least one o	on poor-quality f the four kilns	
			,		

TALLATION OR ACTIVITY NAME  IDENTIFY AND CONTROL OF THE PROPERTY OF THE PROPER	
RTC600688 25-00-45N 102-37-20E  PREFERENCE CIC. USATC, Series 200, Sheet M0496-17HL, 3rd ed, Jan 68, Scale 1:200, (SECRE)  TEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Kun-ming Cement Plant singlebruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	UNTRY
RTC600688 25-00-45N 102-37-20E  PREFERENCE CIG. USATC, Series 200. Sheet M0496-17HL. 3rd ed. Jan 68. Scale 1:200.0 (SECRE)  REST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Kun-ming Cement Plant singlebruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	u.
PREFERENCE CIC. USATC, Series 200, Sheet M0496-17HL, 3rd ed. Jan 68, Scale 1:200, (SECRE)  TEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Kun-ming Cement Plant sizebruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	CH
PREFERENCE CIG. USATC, Series 200, Sheet M0496-17HL, 3rd ed, Jan 68, Scale 1:200.0 (SECRE TEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Kun-ming Cement Plant singlebruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	2
NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Kun-ming Cement Plant sirebruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	
NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Kun-ming Cement Plant sirebruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	.000
BASIC DESCRIPTION  No apparent changes have been observed at Kun-ming Cement Plant single bruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	
BASIC DESCRIPTION  No apparent changes have been observed at Kun-ming Cement Plant single should be bruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	
No apparent changes have been observed at Kun-ming Cement Plant singlebruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	
No apparent changes have been observed at Kun-ming Cement Plant singlebruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	
No apparent changes have been observed at Kun-ming Cement Plant singlebruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	
ebruary 1969, the date of the latest imagery used in the previous report No smoke was coming from the stacks in March 1970 indicating that	
No smoke was coming from the stacks in March 1970 indicating that	
No smoke was coming from the stacks in March 1970 indicating that either of the two kilns at the plant were operating.	ort.
either of the two kilns at the plant were operating.	
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· ·	2
TOP SECRET	

INSTALLATION OR AC	TIVITY NAME					CO	UNTRY	<del></del>
Kuo-kuo Cemen	t Plant						С	Н
UTM COORDINATES	GEOGRAPHIC COOR	DINATES				COMIREX	NO. N	IETB NO.
47RQV569445	26-35-55N I	01-34 <b>-</b> 40E				Non	e	None
MAP REFERENCE								
	500, NG 47-8, \ 1954 (Unclassia		(Yungpeh)	, China,	Scale	1:250,00	0	
LATEST IMAGERY USI	<b>E</b> D		NEGATIO	N DATE (If re	quired)			
			1					
			}		NA			
				•				
•		DACIC [		ON				
			16676161					
.:			DESCRIPT!					
No appare September 1969	ent changes hav 9, the date of	ve been obse	erved at	Kuo-kuo	Cement l the pre	Plant si vious re	nce port.	
September 1969	9, the date of	ve been obse the latest	erved at imagery	Kuo-kuo used in	the pre	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup>	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup>	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	
September 1969 Smoke was	9, the date of s coming from <sup>-</sup> ing that at lea	ve been obse the latest the stack se	erved at imagery erving th	Kuo-kuo used in ne two ki	the previous in I	vious re	port.	



FIGURE 5. LIAO-YANG CEMENT PLANT

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TOP SECRET

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25X1

TALLATION OR AC	TIVITY NAME		COUNT	RY
TALLA TION ON AG	114111			
ao-yang Ceme	nt Plant		СН	
M COORDINATES	GEOGRAPHIC COORDINATES	-	COMIREX NO.	NIETB NO.
TWF285635	41-13-35N 123-20-15E		None	None
PREFERENCE		<b>-</b>	<del></del>	
18th RTG. USA	TC, <u>Series 200. Sheet MO</u>	290-16HL, 5th ed, May	70, Scale 1:2	00,000
(SE	CRET			
TEST IMAGERY USE	ED	NEGATION DATE (If required)		
		N	A	
			<u> </u>	
	DACIO	DESCRIPTION		
	BASIC	DESCRIPTION		
t Liao-vand (	rage silos and a bagging Cement Plant (see Figure otography used in the pre	5) since December 1969	have been com , the date of	pleted
0 1		-+ 46-4 +6:	ilo of this o	Lant
	ning from the stack indic in March and December 19		iin ai inis p	Idili
as operaring	THE PARCE AND DECEMBER 13	701		

ved For Release 2008/05/20 : CIA-RDP79T00909A000700010038	
STALLATION OR ACTIVITY NAME	COUNTRY
in-ping Cement Plant	CH
INCOORDINATES GEOGRAPHIC COORDINATES  IRTD339672 30-24-30N 120-13-45E	, Ui
CIC. USATC, Series 200, Sheet M0492-6HL. 4th ed. Oct 6	57. Scale 1:200 000
TEST IMAGERY USED NEGATION DATE (If re	equired)
	NA

Lin-ping Cement Plant has not been seen on photography since January 1970, the date of the latest imagery used in the previous report. Previous analysis indicated that this plant probably has one rotary kiln.

TOP SECRET

proved For Release	e 2008/05/20 : CIA-RDP79T009 TOP SEC		
INSTALLATION OR AC	TIVITY NAME		COUNTRY
Liu-chou Cemer UTM COORDINATES 49RCS225963	† Plan† GEOGRAPHIC COORDINATES 24-22-20N 109-15-20E		СН
MAP REFERENCE 15th RTS. USAT (SEC		7-22HL. 3rd ed. Mar 70, Sca	le 1:200,000
LATEST IMAGERY US	ED	NEGATION DATE (If required)  NA	

#### NOT1CE

Liu-chou Cement Plant has not been seen on photography since September 1969, the date of the latest photography used in the previous report. Previous analysis indicated that this plant has three rotary kilns.

	ТОР	SECRET	
NSTALLATION OR AC	CTIVITY NAME	COUNTRY	
liu li bo Com	and DL 1		
Liu-li-ho Ceme TM COORDINATES	GEOGRAPHIC COORDINATES	CH	
50SMU161836	39-35-51N 116-01-41E		
AP REFERENCE			•
SECRET	Series 200. Sheet MO381_	1HI 1th ed, Nov 65. Scale 1:200.000	
ATEST IMAGERY USE		NEGATION DATE (If required)	_
		ACCATION DATE (If required)	
		NA	
			-
	RASIC	DESCRIPTION	
NI=			
No apparen	it changes have been obs	erved at Liu-li-ho Cement Plant since	
ecember 1969.	. the date of the latest	photography used in the amount	
ecomber 1909,	The date of the latest	photography used in the previous report.	
Smoke was	observed coming from ho	photography used in the previous report.	
Smoke was that the two k	observed coming from ho	photography used in the previous report.	
Smoke was that the two k	observed coming from bo	photography used in the previous report.	
Smoke was that the two k	observed coming from bo	photography used in the previous report.	
Smoke was that the two k	observed coming from bo	photography used in the previous report.	
Smoke was that the two k	observed coming from bo	photography used in the previous report.	
Smoke was that the two k	observed coming from bo	photography used in the previous report.	
Smoke was that the two k	observed coming from bo	photography used in the previous report.	
Smoke was that the two k	observed coming from bo	photography used in the previous report.	
Smoke was that the two k	observed coming from bo	photography used in the previous report.	
Smoke was that the two k	observed coming from bo	photography used in the previous report.	
Smoke was that the two k	observed coming from bo	photography used in the previous report.	

21 AFFAITON OK AC	TIVITY NAME			COUNTRY
liao-tou-chai	Cement Plant Sh	nihfu		CH
M COORDINATES	GEOGRAPHIC COORDI	NATES		
9SEJ935439	34-44-00N 112	2-01-00E		
AP REFERENCE	<del> </del>			
nd RTS. USATO (SEC	C, S <u>eries 200. S</u> RET	Sheet M0385-8HL.	<u>3rd ed, Jan 70, 9</u>	Scale 1:200,000
ATEST IMAGERY US		NEG	ATION DATE (If required)	
trest innoctities				
		Ì	NA	
		BASIC DESCR	IPTION	
		a boon observed	at Miao-tou-chai (	Cement Plant
No appar Shih-fu since	ent changes nave December 1969.	the date of the	e latest photograph	hy used in
the previous	report.		, ,	
•				
Dust com	ing from the two	o dust catchers	indicated that bo	th of the
kilns at the	plant were opera	ating in July I	970.	
	•			
			•	

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ICTALLATION OF ACTION				
ISTALLATION OR ACTIVITY NAME			COUNTRY	
Mu-tan-chiang Cement Plant	Man ahuan			
TM COORDINATES GEOGRAPHIC COO		<u> </u>	CH	
2TEE383185 44-25-24N 12				
AP REFERENCE			<del></del>	
5th RTS. USATC, Series 200	), Sheet M0283-2	5HL, 4th ed. Oct 68	3. Scale 1:200 000	
(SECRET/		, , , , , , , , , , , , , , , , , , , ,	-,	
ATEST IMAGERY USED	I N	EGATION DATE (If required)		
		NA		
	BASIC DESC	DIDTION		
No changes have been dince December 1969, the dateport.	observed at Mu-t ate of the lates	t photography used	in the previous	
Three pecember 1909, The da	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	
eport.  The single kiln at the	observed at Mu-tate of the lates	t photography used	in the previous	

STALLATION OR ACTIV	VITY NAME		COUNTRY
	Plant Kiang-nan		СН
OSPL864590	GEOGRAPHIC COORDINATES 32-09-25N   18-58-35E		
PREFERENCE th RTS. USATC, (SECRET		-23HL, 4th ed. Aug 68. Scale	1:200.000
TEST IMAGERY USED		NEGATION DATE (If required)	
		NA NA	
	BASIC	DESCRIPTION	
ince December I	t changes have been obse 1969, the date of the la	erved at Nan-ching Cement Pla test photography used in the	nt Kiang-nan previous
ince December I eport.	1969, the date of the la	erved at Nan-ching Cement Pla test photography used in the ant was operating in May 197	previous
ince December I eport.	1969, the date of the la	test photography used in the	previous
ince December I eport.	1969, the date of the la	test photography used in the	previous
ince December I eport.	1969, the date of the la	test photography used in the	previous
ince December I eport.	1969, the date of the la	test photography used in the	previous
ince December I eport.	1969, the date of the la	test photography used in the	previous
ince December I eport.	1969, the date of the la	test photography used in the	previous

NSTALLATION OR AC					COUNTRY	
lan-ching Ceme	ent Plant Lur	ng-tan	_		CH	
OSPL953603	GEOGRAPHIC C	OORDINATES   19-04-01E				
MAP REFERENCE	32-10-07N	119-04-016				
3th RTS. USATC	C, <u>Series 20</u> 0	D, Sheet M0386	-23HL, 4th ed, Auc	68, Scale	1:200,000	
(SECR	RET					
ATEST IMAGERY US	SED		NEGATION DATE (If requ	uired)		
				NA		
		BASIC E	DESCRIPTION			
since December report. None of th	r 1969, the	date of the la	erved at Nan-ching ntest photography u	used in the	previous	
since December report.	r 1969, the	date of the la	rtest photography ι	used in the	previous	
since December report. None of th	r 1969, the	date of the la	rtest photography ι	used in the	previous	
since December report. None of th	r 1969, the	date of the la	rtest photography ι	used in the	previous	
since December report. None of th	r 1969, the	date of the la	rtest photography ι	used in the	previous	
since December report. None of th	r 1969, the	date of the la	rtest photography ι	used in the	previous	
since December report. None of th	r 1969, the	date of the la	rtest photography ι	used in the	previous	
since December report. None of th	r 1969, the	date of the la	rtest photography ι	used in the	previous	
since December report. None of th	r 1969, the	date of the la	rtest photography ι	used in the	previous	
since December report. None of th	r 1969, the	date of the la	rtest photography ι	used in the	previous	
since December report. None of th	r 1969, the	date of the la	rtest photography ι	used in the	previous	

proved For Releas	te 2008/05/20 : CIA-RDP79T00 TOP SE		
INSTALLATION OR AC	CTIVITY NAME		COUNTRY
Nan-ping Cemer	it Plant		СН
UTM COORDINATES 50RPE   56436	GEOGRAPHIC COORDINATES 26-36-25N   18-09-35E		
(SE	CRET	98-10HL, 3rd ed, Apr 68, S	cale 1:200,000
LATEST IMAGERY US	ED	NEGATION DATE (If required)	
-	· <b></b>	NA	

## NOTICE

Nan-ping Cement Plant has not been seen on photography since November 1968, the date of the latest photography used in previous reports.

Previous analysis indicated that this plant has two rotary kilns.



				<u> </u>	
STALLATION OR AC	TIVITY NAME		_		COUNTRY
	71				CH
mei Cement F	GEOGRAPHIC COORDINA	ATES		<u>-</u> -	
8RUH637619	29-29-40N 103-	34-40E			
P REFERENCE					
	Series 200, Sheet	M0495-17HL,	3rd ed, Oc	t 70, Scale	1:200,000
(SECRET)  ATEST IMAGERY USI	E D	1 N	EGATION DATE (I	required)	
TIEST IMAGERT US	-0	"		,	
		BASIC DESCR	LOTION		
oe brought in kilns. each m	t will use the we	uck, and rai	l. The plar	t has two e	exposed rotary
Other ma grinding faci construction, a coal prepar The plant only the kiln foundations w	kilns in China.  jor plant componed ity, 12 mixing at a started between supports and grower evident on contents, the planter observed operation.	Each kiln ents include and correction t storage sinishing mill ween May 196 ound scars for	is served by  a raw mater  ng tanks, two  los, a baggon  , and a clir  7 and August  bor buildings  ecember 1968	a large ma ials receiv o slurry ta ng and ship ker storage 1968. In were visi	ving and anks under pping building, e building.  August 1968, ble. Building e exception
Other ma grinding faci construction, a coal prepar The plant only the kiln foundations w	kilns in China.  jor plant compone lity, 12 mixing a 12 final product ation unit, a fin was started between supports and growere evident on contact the plant	Each kiln ents include and correction t storage sinishing mill ween May 196 ound scars for	is served by  a raw mater  ng tanks, two  los, a baggon  , and a clir  7 and August  bor buildings  ecember 1968	a large ma ials receiv o slurry ta ng and ship ker storage 1968. In were visi	ving and anks under pping building, e building.  August 1968, ble. Building e exception
Other magrinding facionstruction, a coal prepar  The plantonly the kiln foundations woof the slurry	kilns in China.  jor plant compone lity, 12 mixing a 12 final product ation unit, a fin was started between supports and growere evident on contact the plant	Each kiln ents include and correction t storage sinishing mill ween May 196 ound scars for	is served by  a raw mater  ng tanks, two  los, a baggon  , and a clir  7 and August  bor buildings  ecember 1968	a large ma ials receiv o slurry ta ng and ship ker storage 1968. In were visi	ving and anks under pping building, e building.  August 1968, ble. Building e exception
Other magrinding faciconstruction, a coal prepar  The plantonly the kiln foundations won the slurry	kilns in China.  jor plant compone lity, 12 mixing a 12 final product ation unit, a fin was started between supports and growere evident on contact the plant	Each kiln ents include and correction t storage sinishing mill ween May 196 ound scars for	is served by  a raw mater  ng tanks, two  los, a baggon  , and a clir  7 and August  bor buildings  ecember 1968	a large ma ials receiv o slurry ta ng and ship ker storage 1968. In were visi	ving and anks under pping building, e building.  August 1968, ble. Building e exception
Other ma grinding faci construction, a coal prepar The plant only the kiln foundations w	kilns in China.  jor plant compone lity, 12 mixing a 12 final product ation unit, a fin was started between supports and growere evident on contact the plant	Each kiln ents include and correction t storage sinishing mill ween May 196 ound scars for	is served by  a raw mater  ng tanks, two  los, a baggon  , and a clir  7 and August  bor buildings  ecember 1968	a large ma ials receiv o slurry ta ng and ship ker storage 1968. In were visi	ving and anks under pping building, e building.  August 1968, ble. Building e exception
Other ma grinding faci construction, a coal prepar The plant only the kiln foundations w	kilns in China.  jor plant compone lity, 12 mixing a 12 final product ation unit, a fin was started between supports and growere evident on contact the plant	Each kiln ents include and correction t storage sinishing mill ween May 196 ound scars for	is served by  a raw mater  ng tanks, two  los, a baggon  , and a clir  7 and August  bor buildings  ecember 1968	a large ma ials receiv o slurry ta ng and ship ker storage 1968. In were visi	ving and anks under pping building, e building.  August 1968, ble. Building e exception
Other ma grinding faci construction, a coal prepar The plant only the kiln foundations w	kilns in China.  jor plant compone lity, 12 mixing a 12 final product ation unit, a fin was started between supports and growere evident on contact the plant	Each kiln ents include and correction t storage sinishing mill ween May 196 ound scars for	is served by  a raw mater  ng tanks, two  los, a baggon  , and a clir  7 and August  bor buildings  ecember 1968	a large ma ials receiv o slurry ta ng and ship ker storage 1968. In were visi	ving and anks under pping building, e building.  August 1968, ble. Building e exception
Other ma grinding faci construction, a coal prepar The plant only the kiln foundations w	kilns in China.  jor plant compone lity, 12 mixing a 12 final product ation unit, a fin was started between supports and growere evident on contact the plant	Each kiln ents include and correction t storage sinishing mill ween May 196 ound scars for	is served by  a raw mater  ng tanks, two  los, a baggon  , and a clir  7 and August  bor buildings  ecember 1968	a large ma ials receiv o slurry ta ng and ship ker storage 1968. In were visi	ving and anks under pping building, e building.  August 1968, ble. Building e exception
Other ma grinding faci construction, a coal prepar The plant only the kiln foundations w	kilns in China.  jor plant compone lity, 12 mixing a 12 final product ation unit, a fin was started between supports and growere evident on contact the plant	Each kiln ents include and correction t storage sinishing mill ween May 196 ound scars for	is served by  a raw mater  ng tanks, two  los, a baggon  , and a clir  7 and August  bor buildings  ecember 1968	a large ma ials receiv o slurry ta ng and ship ker storage 1968. In were visi	ving and anks under pping building, e building.  August 1968, ble. Building e exception
Other ma grinding faci construction, a coal prepar The plant only the kiln foundations w	kilns in China.  jor plant compone lity, 12 mixing a 12 final product ation unit, a fin was started between supports and growere evident on contact the plant	Each kiln ents include and correction t storage sinishing mill ween May 196 ound scars for	is served by a raw mater ng tanks, to los, a baggi , and a clir 7 and August or buildings ecember 1968 externally co	a large ma ials receiv o slurry ta ng and ship ker storage 1968. In were visi	ving and anks under pping building, e building.  August 1968, ble. Building e exception

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	008/05/20 : CIA-RDP79T00 T <b>OP S</b>	ECRET	
TALLATION OR ACTIV	TTY NAME		COUNTRY
	lant Kung-yuan		CH
	EOGRAPHIC COORDINATES		
	41-18-11N 123-44-46E		
P REFERENCE			
BTH RIG. USAIC	, Series 200, Sheet MO	0290-16HL, 5th ed, May 70	, Scale 1:200,000
(SECR	<u> </u>		
TEST IMAGERY USED		NEGATION DATE (If required)	
		NA	
inuary 1970, †h	have been observed at e date of the latest p	PESCRIPTION Pen-chi Cement Plant Kung hotography used in the p	revious report.
anuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op	DESCRIPTION Pen-chi Cement Plant Kund	revious report.
anuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
anuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
anuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
anuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
anuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
anuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
anuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
nnuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
nnuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
nuary 1970, th The plant d 170, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
nuary 1970, th The plant d 170, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
nuary 1970, th The plant d 170, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
nuary 1970, th The plant d 170, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
nuary 1970, th The plant d 170, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
nnuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.
anuary 1970, th The plant d 970, smoke was	have been observed at e date of the latest p id not appear to be op coming from the stack	PESCRIPTION  Pen-chi Cement Plant Kung  hotography used in the p	revious report.

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TOP SECRET

en-chi Cement Plant South  M COORDINATES GEOGRAPHIC COORDINATES  ITWF602680 41-15-56N 123-43-10E  P REFERENCE  48th RTG. USATC, Series 200, Sheet M0290-16HL, 5th ed, May 70, Scale (SECRET)  TEST IMAGERY USED  NEGATION DATE (If required)  NA	CH I:200,000
M COORDINATES GEOGRAPHIC COORDINATES    TWF602680	
PREFERENCE 48th RTG. USATC, Series 200, Sheet M0290-16HL, 5th ed, May 70, Scale (SECRET)  TEST IMAGERY USED  NEGATION DATE (If required)  NA	I:200,000
PREFERENCE 48th RTG. USATC, Series 200, Sheet M0290-16HL, 5th ed, May 70, Scale (SECRET  TEST IMAGERY USED  NEGATION DATE (If required)  NA	1:200,000
A8th RTG. USATC, Series 200, Sheet M0290-16HL, 5th ed, May 70, Scale (SECRET)  TEST IMAGERY USED  NEGATION DATE (If required)  NA	1:200,000
(SECRET   NEGATION DATE (If required)  NA	
NA	
BASIC DESCRIPTION	
Broto BESSIVII ITSIV	
No apparent changes have been observed at Pen-chi Cement Plant Sou	
anuary 1970, the date of the latest photography used in the previous (	report.
Haze covered most of the plant in March 1970, preventing a determina	
f its operational status. Smoke was observed coming from both stacks	in
ecember 1970, indicating that the two kilns were operating.	

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STALLATION OR ACTIVITY NAME	<u> </u>		COUNTRY
hang-hai Cement Plant			СН
	C COORDINATES		0(1)
	10N 121-27-37E		
AP REFERENCE		_	
nd RTS. USATC, <u>Series</u> (SECRET)	200. Sheet M0492	2-7HL. 3rd ed. Mav 68. Scale 1	:200.000
TEST IMAGERY USED		NEGATION DATE (If required)	
		110	
		NA	
december 1969, the date	es have been obse of the latest p	ESCRIPTION erved at Shang-hai Cement Plan photography used in the previo	us report.
The four northern moke coming from their 970, only the southern iln and one of the norther the plant on 7 Nover he operational status	es have been obsette of the latest particles. Haze on kiln was operations were about 1970, but due of the plant coulality photograph	erved at Shang-hai Cement Plan	ted by n April southern erved ng units. er 1970
The four northern moke coming from their 970, only the southern iln and one of the northe plant on 7 Nover he operational status ue to haze and poor-qu	es have been obsette of the latest particles. Haze on kiln was operations were about 1970, but due of the plant coulality photograph	erved at Shang-hai Cement Plan chotography used in the previous ating in March 1970, as indical obscured the southern kiln. I ting. On 6 November 1970, the e operating. No smoke was obs ust was coming from the grindi	ted by n April southern erved ng units. er 1970
The four northern moke coming from their 970, only the southern iln and one of the northe plant on 7 Nover he operational status ue to haze and poor-qu	es have been obsette of the latest particles. Haze on kiln was operations were about 1970, but due of the plant coulality photograph	erved at Shang-hai Cement Plan chotography used in the previous ating in March 1970, as indical obscured the southern kiln. I ting. On 6 November 1970, the e operating. No smoke was obs ust was coming from the grindi	ted by n April southern erved ng units. er 1970

					COUNT	RY
en-yang Ceme	ent Plant				СН	
TM COORDINATES	GEOGRAPHIC COOF				EX NO.	NIETB NO.
TWG445331	41-51-10N 12	23-32-05E		N	one	None_
USAT (SEC	RET	Sheet M0290	NEGATION DATE (If requ		1:200	,000
				NA		
The plant rought to the iln building ajor plant coring unit, inishing mill	rea approximate  produces ceme  plant by rai  measuring appromponents inclu  a coal prepar	ely 625 by 48 ent using the I. The plant roximately 17 ude two raw m ration facili and correcti	physical securit 5 feet, or 7 acre wet process. Ra has one rotary k 0 by 30 feet (see aterials storage ty, a clinker storage ng tanks, four fi	es. nw materials kiln enclose e Figure 7). buildings, prage buildi	are d in a Othe a prim ng, a	r ary
n addition to	the clinker :	when first o storage build	bserved on photog ing was built bet	graphy of Au ween July a	gus† 1 nd	963.
eptember 1964						

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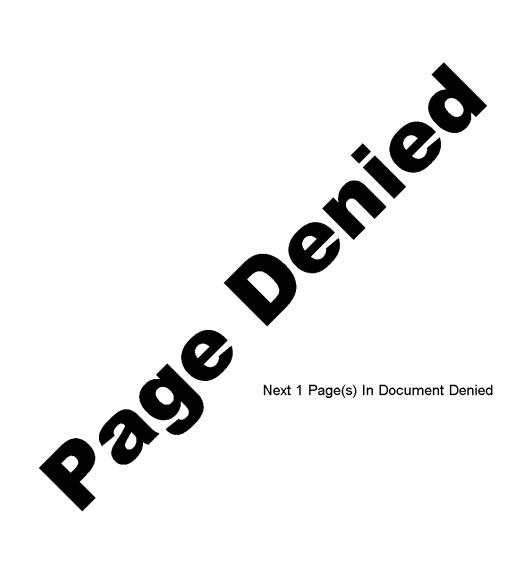




FIGURE 8. TA-TUNG CEMENT PLANT,

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STALLATION OR ACTIVITY NAME		- 1	COUNTRY	_
a-tung Cement Plant M COORDINATES   GEOGRAPHIC COORDINAT	res		CH	
9SFQ810286 39-59-08N 113-0				
AP REFERENCE				
5th RTS. USATC, <u>Series 200. Sh</u>	eet M0382-3HL. 2nd	Led. Jul 67. Sca	le 1:200.000	
TEST IMAGERY USED	NEGATION D	ATE (If required)		<u>-</u>
				2
		NA		
Heavy smoke was seen coming Indicating that at least two ki Operating in June 1970. In Dec Stacks indicating that all four	Ins were operating ember 1970, smoke	. The plant was was coming from	not	

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ISTALLATION OR A	CTIVITY NAME				COUNTRY
Tai-yuan Ceme	nt Plant				CH
TM COORDINATES 19SFM255933	GEOGRAPHIC CO 37-52-00N				
APREFERENCE 15th RTS. USA (SE	TC, Series 2 CRET	00, Sheet M03	⊣ 82–13HL, 3rd ed, .	Jun 67, Scal	e 1:200,000
ATEST IMAGERY US	ED		NEGATION DATE (If req	uired)	
				NA	
		BASIC	DESCRIPTION		
No appar	ent changes	have been obs	erved at Tai-yuan	Cement Plan	t since
No appar November 1969	ent changes , the date o	have been obs f the latest	erved at Tai-yuan photography used i	Cement Plar n the previ	t since ous report.
November 1969 One of t	, the date o he two kilns	f the latest was operatin	erved at Tai-yuan photography used i g in June 1970, as	n the previ	ous report.
November 1969	, the date o he two kilns	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o he two kilns	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o he two kilns	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o he two kilns	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o he two kilns	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o he two kilns	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o	f the latest was operatin	photography used i	n the previ	ous report.
November 1969 One of t	, the date o	f the latest was operatin	photography used i	n the previ	ous report.

Tang-shan Cement Plant Chi-hsin  TM COORDINATES  OSPJ036878  CH  CH  CH  CH  CH  CH  CH  CH  CH  C					Loountry
TM COORDINATES OSPJ036878  39-37-47N   18-12-00E  AP REFERENCE 5th RTS. USATC, Series 200, Sheet M0381-2HL, 3rd ed, Jul 70, Scale 1:200,000 (SECRET  ATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced	ISTALLATION OR A	CTIVITY NAME			COUNTRY
TM COORDINATES OSPJ036878  39-37-47N   18-12-00E  AP REFERENCE 5th RTS. USATC, Series 200, Sheet M0381-2HL, 3rd ed, Jul 70, Scale 1:200,000 (SECRET  ATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced	lang chan Com	ont Plant Chi-ho	ie		CH
AP REFERENCE 5th RTS. USATC, Series 200, Sheet M0381-2HL, 3rd ed, Jul 70, Scale 1:200,000 (SECRET  ATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced	TM COORDINATES				OIT
SECRET  ATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced	0SPJ036878	39-37-47N 118-	12-00E		
NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced	AP REFERENCE	TO 0 1 000	01 1 10701	0111 7 4 4 101 70 0-1-	1.200.000
NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced			Sheet MU381	-ZHL, 3rd ed, Jul 70, Scale	1:200,000
BASIC DESCRIPTION  No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced				NECATION DATE /If required	
BASIC DESCRIPTION  No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced	ATEST IMAGERY US	ED		NEGATION DATE (IT required)	
No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced				NA NA	
No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced					
No changes have been observed at Tang-shan Cement Plant Chi-hsin since December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced			BASIC DES	SCRIPTION	
December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced					
December 1969, the date of the latest photography used in the previous report.  Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced					
Haze precluded determination of plant operation in July 1970. The three stacks on the northern kiln buildings were smoking on all other referenced	No chana	es have been obs	erved at Ta	ang-shan Cement Plant Chi-hs	in since
three stacks on the northern kiln buildings were smoking on all other referenced					
three stacks on the northern kiln buildings were smoking on all other referenced imagery, indicating that at least three of the six kilns were operating.	December 1969	, the date of th	e latest ph	notography used in the previ	ous report.
imagery, indicating that at least three of the six kilns were operating.	December 1969 Haze pre	, the date of th	e latest ph tion of pla	notography used in the previ ant operation in July 1970.	ous report. The
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced
	December 1969 Haze pre Three stacks	, the date of th cluded determina on the northern	e latest ph tion of pla kiln buildi	notography used in the previ ant operation in July 1970. Ings were smoking on all oth	ous report. The er referenced



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INSTALLATION OR A	CTIVITY NAME		COUNTRY
Ting-shu-chen UTM COORDINATES	GEOGRAPHIC COORDINATES		CH COMIREX NO. NIETB NO.
50RQK695628	31-16-05N 119-49-50E		None None
MAP REFERENCE 8th RTS. USATO (SECF	C, Series 200, Sheet M0493	–5HL, 3rd ed, Apr 68,	Scale 1:200,000
LATEST IMAGERY US		NEGATION DATE (If required)	
	DACIO	ESCRIPTION	
This planfrom a quarry  The planf(see Figure 9 include a princlude	s secured by a wall. The et, or about 13 acres.  Int produces cement using to next to the plant.  It has two rotary kilns, each of the plant of the	he wet process. Raw not measuring approximations. Other major populations, five mixing	materials are obtained ately 185 lant components g and correcting
building, and	five final product storag buildings in the plant ar	e silos. There are a	Iso several
With the and completed place in Octo	exception of the kilns, c between December 1964 and ber 1965.	construction of the plants of the plants of the lands of	ant was started kilns were in
	t was not seen operating u	ntil March 1966. Smo	ril 1970, indicat-
from the stac	east one kiln was in opera in November 1968 and Febru	tion. No evidence of	plant operation •
from the stac	east one kiln was in opera	tion. No evidence of	plant operation •
from the stac	east one kiln was in opera	tion. No evidence of	plant operation •
from the stac	east one kiln was in opera	tion. No evidence of	plant operation

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TOP SECRET

25X1



ISTALLATION OR AC	TIVITY NAME			COUNTRY	_
TM COORDINATES	Plant Nan-ting GEOGRAPHIC COORDINAT	TES		CH	
50SNR952680	36-45 <b>-</b> 10N 118-04				
AP REFERENCE					
		eet M0381-22HL.	4th ed. Jul 68. Sca	ale 1:200 000	
SEC) ATEST IMAGERY USE		NEGATI	ON DATE (If required)		_
	.•	1.24	311 B.112 ( roquiros)		
			NA		2
since December report. In Octobe In addition, t	inges have been ob 1969, the date o er 1970, the arm o	of the latest ph of the northern catcher appeare	o Cement Plant Nan-totography used in the slurry tank was dismoder to be undergoing r	ne previous	
In Octobe In Octobe In addition, to tion, but this Smoke was and December 1 smoke oblitera	enges have been ob 1969, the date of er 1970, the arm of the northern dust activity could not coming from at 1 970, indicating the	served at Tzu-p of the latest ph of the northern catcher appeare ot be positivel east two of the hat at least two cks. Smoke was	o Cement Plant Nan-totography used in the slurry tank was dismed to be undergoing my identified.  four stacks in May, to kilns were operations one stacks one stacks in the stacks of th	nantled. reconstruc- . November ing. The	
In Octobe In Octobe In addition, to tion, but this Smoke was and December 1 smoke oblitera	enges have been ob 1969, the date of er 1970, the arm of the northern dust activity could not coming from at 1 970, indicating the	served at Tzu-p of the latest ph of the northern catcher appeare ot be positivel east two of the hat at least two cks. Smoke was	o Cement Plant Nan-totography used in the slurry tank was dismed to be undergoing reprinted.  four stacks in May, oo kilns were operations	nantled. reconstruc- . November ing. The	
In Octobe In Octobe In addition, to tion, but this Smoke was and December 1 smoke oblitera	enges have been ob 1969, the date of er 1970, the arm of the northern dust activity could not coming from at 1 970, indicating the	served at Tzu-p of the latest ph of the northern catcher appeare ot be positivel east two of the hat at least two cks. Smoke was	o Cement Plant Nan-totography used in the slurry tank was dismed to be undergoing my identified.  four stacks in May, to kilns were operations one stacks one stacks in the stacks of th	nantled. reconstruc- . November ing. The	
In Octobe In Octobe In addition, to tion, but this Smoke was and December 1 smoke oblitera	enges have been ob 1969, the date of er 1970, the arm of the northern dust activity could not coming from at 1 970, indicating the	served at Tzu-p of the latest ph of the northern catcher appeare ot be positivel east two of the hat at least two cks. Smoke was	o Cement Plant Nan-totography used in the slurry tank was dismed to be undergoing my identified.  four stacks in May, to kilns were operations one stacks one stacks in the stacks of th	nantled. reconstruc- . November ing. The	



Apr	proved For Release 2008/05/20 : CIA-RDP79T00909A000700010038-8	25X1 25X1
	INSTALLATION OR ACTIVITY NAME COUNTRY	
Ÿ		
	Wu-chang Cement Plant UTM COORDINATES   GEOGRAPHIC COORDINATES   CH	25X1
3	50RKJ532919 30-38-00N 114-26-00E	
	MAP REFERENCE	 o 25X1
	USATC, Series 200. Sheet M0493-6HL, 4th ed. Jan 68, Scale 1:200,00 (SECRET	25X1 25X1
	LATEST IMAGERY USED NEGATION DATE (If required)	
		OEV4
	NA NA	25X1
	A new kiln has been under construction at Wu-chang Cement Plant since October 1969, the date of the latest photography used in the previous report.  The new kiln is being constructed immediately across the rail spur from the old plant (see Figure 10). A large new building was observed in the early stage of construction in the same area. This building will probably house additional plant components. Construction materials, kiln supports, and kiln sections have been observed on the ground in this location on all referenced photography.  Smoke coming from its associated stack indicated that the original kiln was operating on all referenced photography except that of January 1970.	
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٥	57_	25X1

-57-

TOP SECRET

NSTALLATION OR A	CTIVITY NAME					
					COL	INTRY
Wu-lu-mu-chi			-			СН
ITM COORDINATES 45TWJ 467443	<b>GEOGRAPHIC COO!</b> 43-44-58N 08					
IAP REFERENCE	<u> </u>					
2nd RTS. USAT (SEC	C, <u>Series 200.</u> CRET	Sheet M033	0-3HL, 3rd e	<u>d. Jun 69. Sc</u>	ale 1:20	0,000
ATEST IMAGERY US			NEGATION DAT	TE (If required)		_
		-		NA		<u>-</u>
		D4010 D	ECOD LIDELON			
		BASIC D	ESCRIPTION			
	ent changes ha	wa haan che		lu-mu-chi Cem	ent Plan	t since
1201261 10/11			erved at Wu-			
January 1970,	the date of t					
·		he latest p	hotography u	sed in the pr	evious r	eport.
·	the date of t	he latest p	hotography u	sed in the pr	evious r	eport.
·	the date of t	he latest p	hotography u	sed in the pr	evious r	eport.
·	the date of t	he latest p	hotography u	sed in the pr	evious r	eport.
·	the date of t	he latest p	hotography u	sed in the pr	evious r	eport.
·	the date of t	he latest p	hotography u	sed in the pr	evious r	eport.
·	the date of t	he latest p	hotography u	sed in the pr	evious r	eport.
·	the date of t	he latest p	hotography u	sed in the pr	evious r	eport.
·	the date of t	he latest p	hotography u	sed in the pr	evious r	eport.
·	the date of t	he latest p	hotography u	sed in the pr	evious r	eport.
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·	the date of t	he latest p	hotography u	sed in the pr	evious r	eport.
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·	the date of t	he latest p	hotography u	sed in the pr	evious r	eport.

— Approved For Release 2008/05/20 : CIA-RDP79T00909A000700010038-8

INSTALLATION OR ACTIVITY NAME  Wu-sung Cement Plant  UTM COORDINATES  SIRUE532709  Al-21-42N 121-27-20E  MAP REFERENCE  2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000  (SECRET)  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the kiln was operating in March and December 1970.	Wu-sung Cement Plant  UTM COORDINATES GEOGRAPHIC COORDINATES SIRUE532709  MAP REFERENCE  2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	Approved For Relea	ase 2008/05/20 : CIA-RDP79T0 TOP S	00909A000700010038-8 SECRET		
Wu-sung Cement Plant  UTM COORDINATES GEOGRAPHIC COORDINATES 5   RUE532709   31-21-42N   121-27-20E  MAP REFERENCE 2nd RTS. USATC, Series 200. Sheet M0492-2HL, 3rd ed, Dec 68, Scale   1:200,000 (SECRET)  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	Wu-sung Cement Plant  UTM COORDINATES GEOGRAPHIC COORDINATES SIRUE532709 SIRUE532709 SIRUE532709 MAP REFERENCE  2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	INSTALLATION OR A	ACTIVITY NAME		COUNTRY	•
UTM COORDINATES GEOGRAPHIC COORDINATES  5   RUE532709   31-21-42N   121-27-20E    MAP REFERENCE  2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale   1:200,000 (SECRET)  LATEST IMAGERY USED   NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	UTM COORDINATES GEOGRAPHIC COORDINATES  5   SIRUE532709   31-21-42N   121-27-20E    MAP REFERENCE  2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET    LATEST IMAGERY USED   NEGATION DATE (If required)    NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	,				
3 51RUE532709 31-21-42N 121-27-20E  MAP REFERENCE  2nd RTS. USATC, Series 200. Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	MAP REFERENCE  2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	~			CH	_
MAP REFERENCE  2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET)  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	MAP REFERENCE  2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET)  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	UTM COORDINATES	GEOGRAPHIC COORDINATES			
2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET)  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET  LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the		31-21-42N 121-27-20E			
LATEST IMAGERY USED  NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	NEGATION DATE (If required)  NA  BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the			00 0111 7 1 1 0 60 6	211-200-000	
BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the			92-2HL, 3ra ea, Dec 68, 5	cate 1:200,000	
BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the			NEGATION DATE (If required)		-
BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	ZATEST MARGENT O	~ <b>~~</b>			
BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the	BASIC DESCRIPTION  No apparent changes have been observed at Wu-sung Cement Plant since December 1969, the date of the latest photography used in the previous report.  A moderate amount of smoke coming from the stack indicated that the			NIΔ		
		A modera			ed that the	
	•	•				

TOP SECRET

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TALLATION OR ACT	TVITY NAME		COUNTRY
	. D		0.1
no-hsien Cemer	T Plant GEOGRAPHIC COORDINATES		CH
PSCJ145675 PREFERENCE	34-54-20N 108-59-20E		
	C. Series 200. Sheet M	10384-10HL, 2nd ed, Jun 68,	Scale 1:200.000
(SECI		ioso i joine, ema ou, outrooj	00010 11200,000
TEST IMAGERY USE	 D	NEGATION DATE (If required)	
		NA	
ecember 1969, Smoke was	the date of the lates	observed at Yao-hsien Cements of photography used in the p acks in May 1970, indicating ating.	previous report.

pproved For Releas	e 2008/05/20 : CIA-RDP79T0090 T <b>OP SEC</b> I		
INSTALLATION OR AC	TIVITY NAME		COUNTRY
Yung-teng Ceme	nt Plant		OL I
UTM COORDINATES	GEOGRAPHIC COORDINATES		CH
48SUR408773	36-49-50N 103-13-00E		
MAP REFERENCE			
ACIC. USATC, S	eries 200, Sheet M0383–16HL	_, 2nd ed, Sep 68, Scale !	:200.000
LATEST IMAGERY USE	ט	NEGATION DATE (If required)	<u> </u>
	_	NA	

## NOTICE

The Yung-teng Cement Plant has not been seen on photography since December 1969, the date of the latest photography used in the previous report.

Previous analyis has indicated that this plant has four rotary kilns.

TOP SECRET

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## **Top Secret**

**Top Secret**